

ENCROACHMENT MANAGEMENT

A Comprehensive Approach

NASA

International Workshop

On Environment and Alternative Energy

University of California at San Diego
San Diego, CA

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Encroachment Defined

“Any non-Navy action planned or executed in the vicinity of a naval activity or operational area which inhibits, curtails, or possesses the potential to impede the performance of the mission of the naval activity.”

BLUF

- *Encroachment Management is focused on protecting operational capability and investment.*
- *Encroachment Management successfully utilizes outreach to all stakeholders to find common objectives and promote partnerships.*
- *Encroachment Management leverages partners funding to provide long-term encroachment protection.*

Encroachment Management is critical to sustaining readiness

Encroachment Management Background

- Land, sea, and air operations at installations, ranges, and OPAREAs are experiencing encroachment challenges, including:
 - ✓ incompatible land use development including renewable energy (wind farms, solar, geothermal);
 - ✓ a shrinking frequency spectrum;
 - ✓ increasing airborne noise impacts;
 - ✓ growing population of threatened and endangered species and environmental restrictions;
 - ✓ and private and public pressure to use Navy-owned land
- Encroachment Management ensures operational readiness for all installations and test and training ranges

Classic Encroachment NAS LOS ALAMITOS

- Orange County, California
 - ✓ Los Alamitos 1942
 - ✓ Los Alamitos 1959
 - ✓ Los Alamitos 2000
 - ✓ Los Alamitos “Today”



1942

An aerial photograph of an airport complex. A long runway runs diagonally from the upper left towards the lower right. To the right of the runway, there is a large terminal building and several smaller structures. The surrounding area is a mix of fields and some residential or commercial development. Two labels are overlaid on the image: 'ROSSMOOR' in the top right and 'EASTGATE' in the bottom center. The year '1959' is in the bottom right corner.

ROSSMOOR

EASTGATE

1959

NAVAL AIR STATION
LOS ALAMITOS

*"Pardon Our NOISE
it's the Sound of Freedom"*

MAIN ENTRANCE FARQUHAR and LEXINGTON



c. 1970s



2000



NAS LEMOORE

Challenges & Mission Impacts

Urban Development
(Dev. under MTRs, Population Growth,
transportation infrastructure)



Avoidance Areas Created

Airborne Noise
Competition for air, land, sea
(airports)



Reduced Usage days

Test/Train Events Prohibited

Competition for scarce resources
(offshore drilling, LNG, wind, minerals, energy
corridors)



Reduced range Access

Segmented Testing/Training

Threatened/Endangered Species
(wildlife habitat)



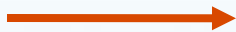
Limits on Use of New technology

Maritime Issues (Coastal Zones, Sanctuaries)

Unexploded Ordnance

Restricted Altitudes/Speeds

Safety Arcs



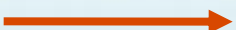
Inhibited Tactics Development

Frequency Spectrum Interference

Air Quality - Water Quality

Restricted Night Ops

Environmental Regulations



Reduced Live Fire Proficiency

Interagency Coordination

Legislative Initiatives



Increased Costs or Risks

(Wilderness Designation, Sale of Public Lands)

Encroachment Management

- **Encroachment Action Plans (EAP)**
 - ✓ Identify and prioritize short, mid, and long-term strategies to mitigate encroachment challenges
- **Encroachment Partnering (EP)**
 - ✓ Leverage Navy or REPI funds to acquire real property interests in the form of restrictive or conservation easements
- **Air Installations Compatible Use Zones (AICUZ)**
 - ✓ Compatible development in the vicinity of Navy airfields through land use controls (e.g., zoning, height restrictions, disclosure, etc.)
- **Community Planning and Liaison Officers (CPLOs)**
 - ✓ Implement Encroachment Management Plan and interact with local government and all stakeholders

CPLO

Community Planning and Liaison Officer

CPLOs are the critical element in Navy's encroachment management strategy. Region CPLOs advise Regional Commanders on encroachment issues and work with Installation CPLOs to implement EAP, AICUZ/RAICUZ, and other plans and programs to protect Navy's operational capability and investment.

§2684a - Agreements To Limit Encroachments And Other Constraints On Military Training, Testing, And Operations

- Navy may enter into an agreement with an eligible entity to address the use or development of real property in the vicinity of, or ecologically related to, of a military installation for the purpose of ...
 - ✓ Limiting any development or use of the property that would be incompatible with the mission of the installation; or
 - ✓ Preserving habitat on the property in a manner that—
 - **(A) is compatible with environmental requirements; and**
 - **(B) may eliminate or relieve current or anticipated environmental restrictions that would or might otherwise restrict, impede, or otherwise interfere, whether directly or indirectly, with current or anticipated military training, testing, or operations on the installation**

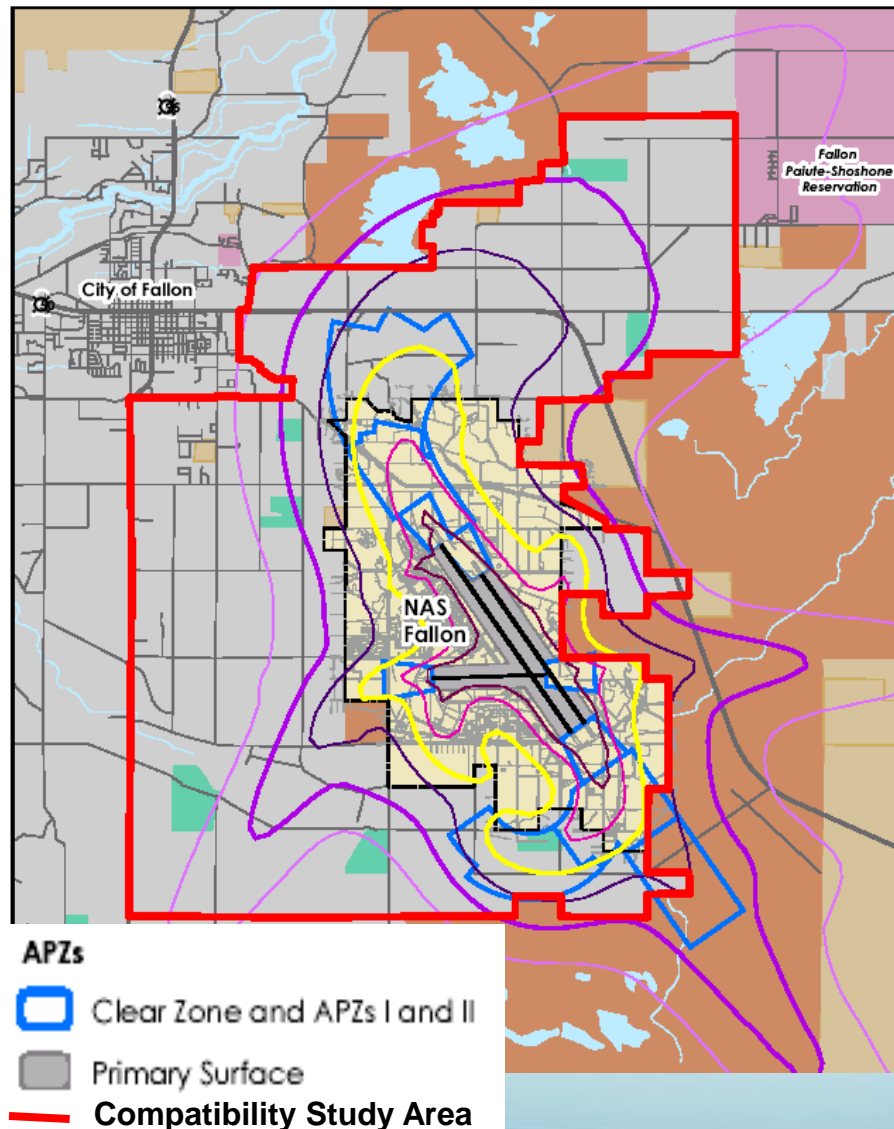
Multi-Year Encroachment Protection Agreements

| | Project Title | Installation or Range |
|-------------|--|--|
| FY06 | Agreement with Churchill County | NAS Fallon |
| FY06 | Agreement with State of Florida | NAS Whiting Field |
| FY07 | Agreement with local NGOs | NAS Fallon |
| FY07 | Agreement with Santa Rosa County | NAS Whiting Field |
| FY07 | Agreement w\City of Virginia Beach | NAS Oceana (NALF Fentress) |
| FY07 | Agreement with Ocean County | NAES Lakehurst |
| FY08 | Agreement with City of Chesapeake | NAS Oceana (NALF Fentress) |
| FY08 | Agreement with TNC | R-2508 Range Complex |
| FY09 | Agreement with City of Chesapeake | NSA Norfolk, NW Annex |
| FY09 | Agreement with City of Jacksonville | OLF Whitehouse |
| FY09 | Agreement with TPL | NAS JRB New Orleans |
| FY09 | Agreement with WCLT | OLF Coupeville |
| FY09 | Agreement with MD, TNC, & CF | Atlantic Test Range & NAS Pax River |
| FY10 | Agreement with TPL | NB Coronado |

Encroachment Partnering Projects

- NAS Fallon, NV
- NAS Whiting Field, FL
- NAS Oceana/NALF Fentress, VA
- NAWS China Lake-Edwards AFB (R-2508), CA
- NAS Pensacola, FL
- Outlying Landing Field (OLF) Whitehouse, FL

NAS Fallon



Navy & Churchill County Agreement Navy & local Land Trusts Agreement

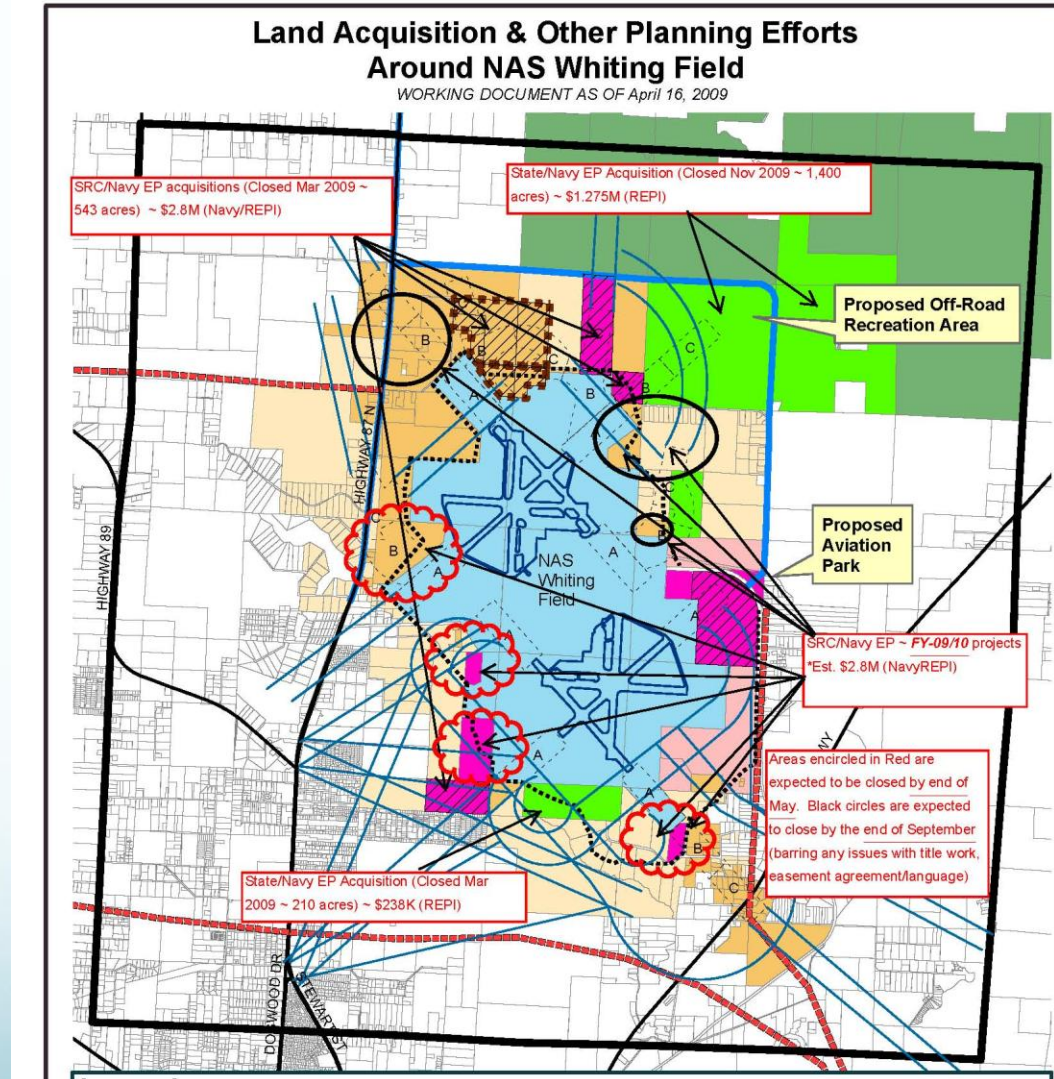
@24,000 acres w/6,000 acres
targeted

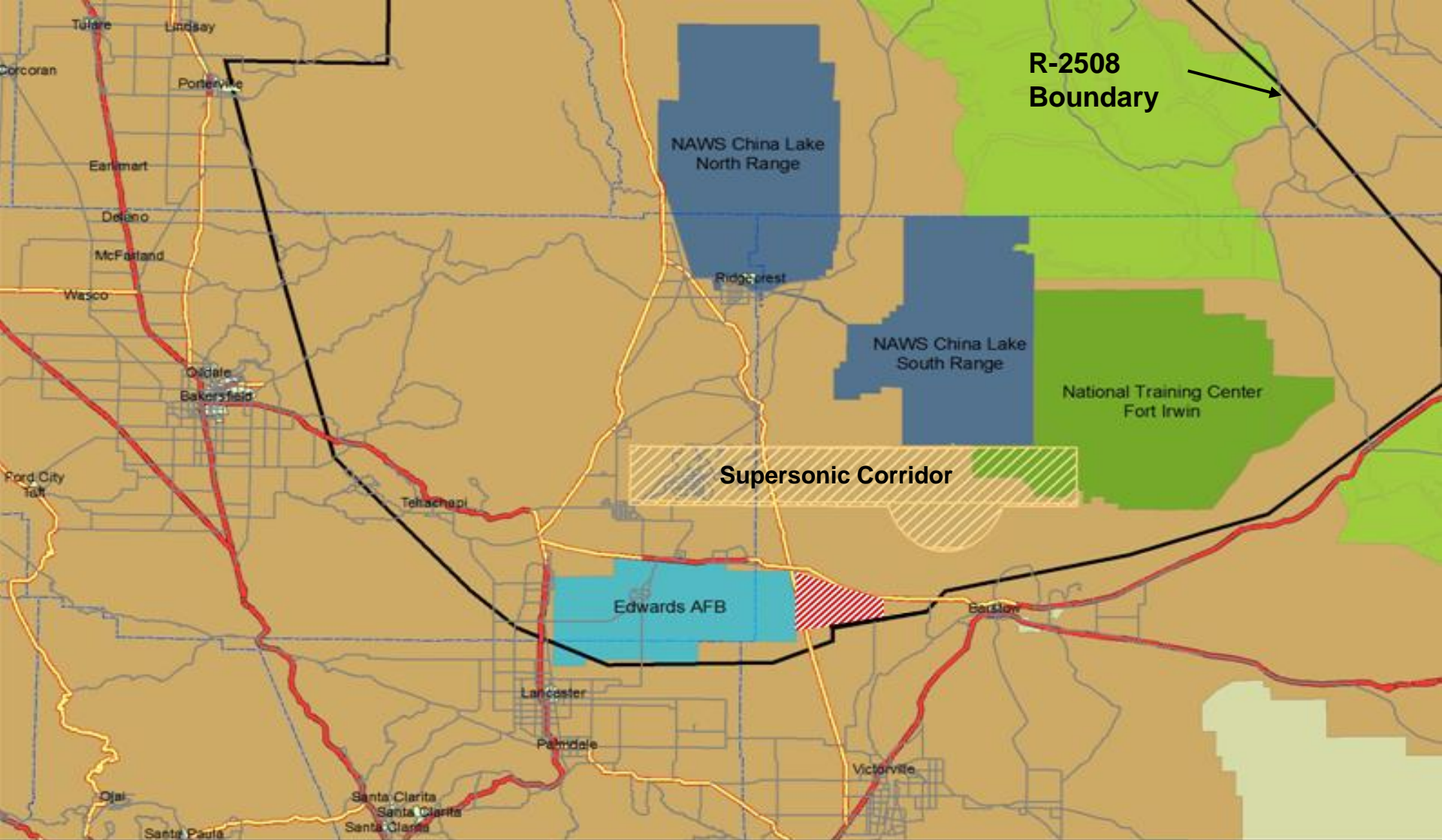
- Natural Growth Corridors
- AICUZ
- Expansion of R/W 7/25
- Land Ownership
- Natural Boundaries

NAS Whiting Field

NAS Whiting Field

- Navy has 2 EP Agreements one w/County; one w/Florida
- Navy has obligated over \$10.6M in REPI and Navy funds since FY06
- Navy has acquired 2,270 acres in restrictive easements or covenants
- Projects are protecting Accidental Potential Zones and flight paths for initial Navy flight training (aircraft and helicopters)
- Community saves agricultural uses, conserves habitat, and creates recreational uses





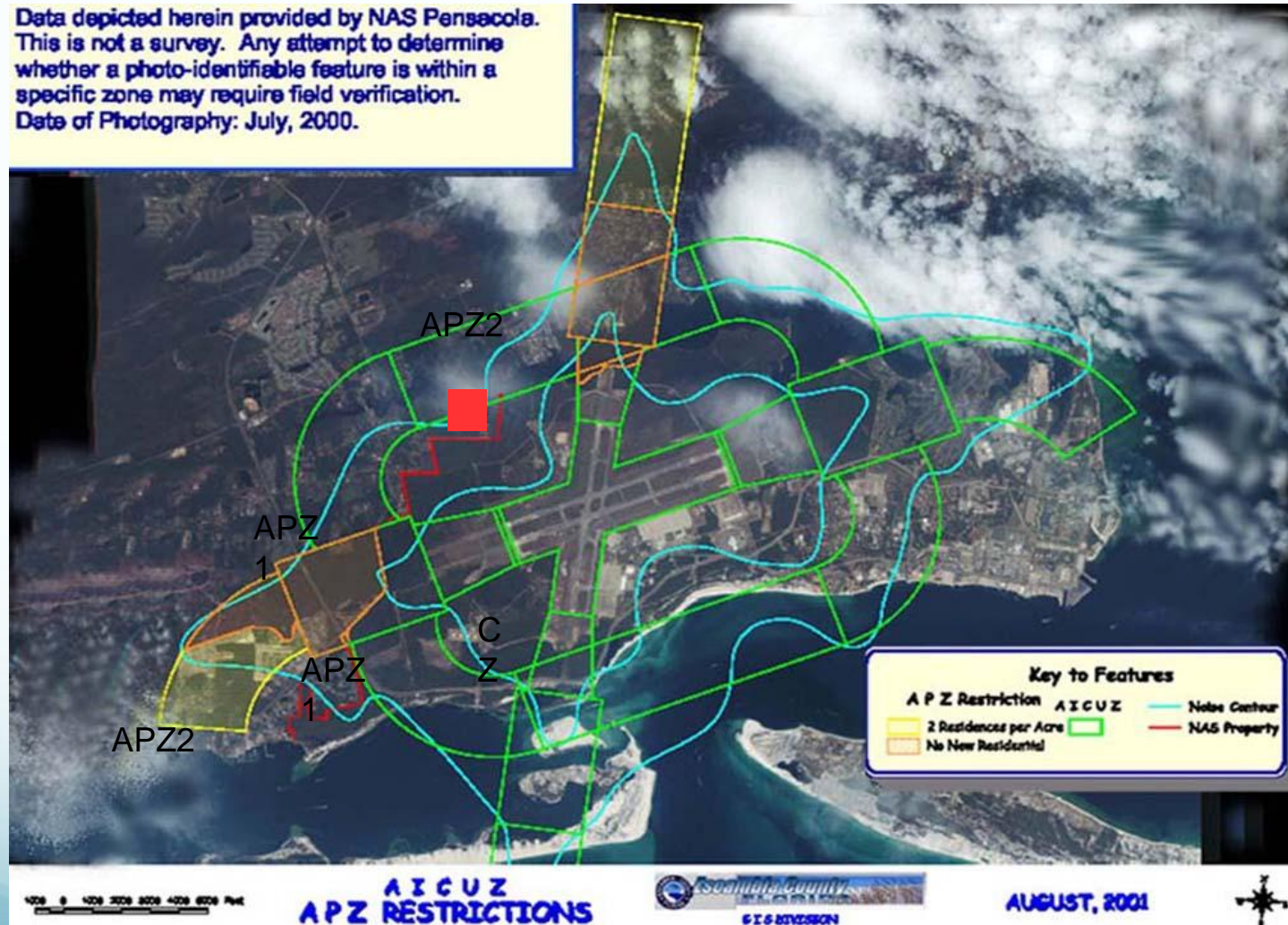
**REPI Project
Black Mountain Supersonic
Corridor/Hawes Field
Regional Map**

16 August 2007

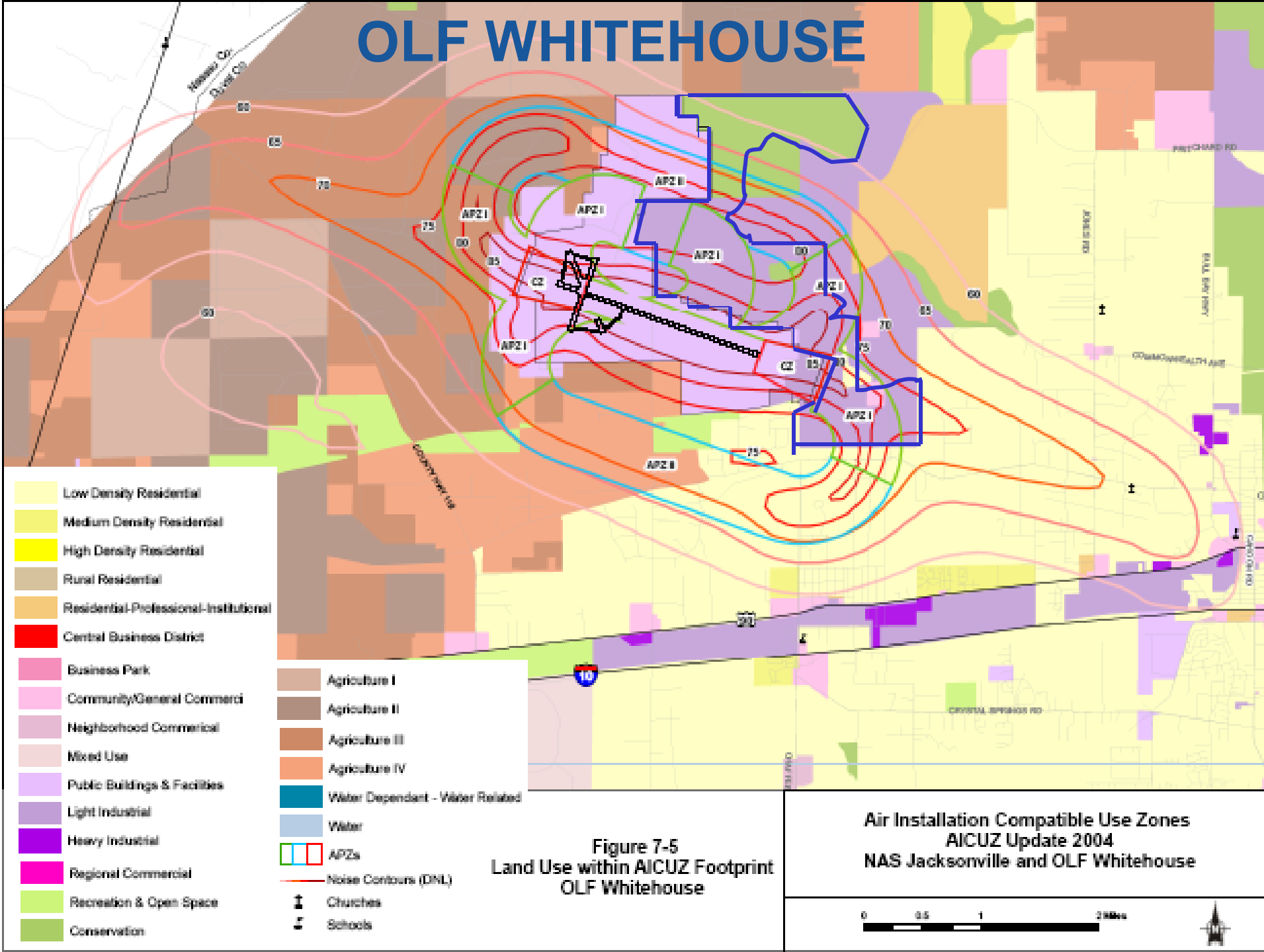
NAS PENSACOLA

Bayou Grande Project

Data depicted herein provided by NAS Pensacola.
This is not a survey. Any attempt to determine
whether a photo-identifiable feature is within a
specific zone may require field verification.
Date of Photography: July, 2000.



OLF WHITEHOUSE



Questions

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BACKUP

Encroachment Management Roles and Responsibilities

- Chief of Naval Operations (CNO) has responsibility for Navy-wide encroachment program.
- Commander, Navy Installations Command (CNIC) executes the program for CNO.
- Naval Facilities Engineering Command (NAVFAC) provides program management for CNIC by through planning, environmental, real estate, and legal support.

Encroachment Management Budget

- CNIC funding for EAPs, EP, CPLOs:

FY 10 - \$8.0M

FY 09 - \$8.5M

FY 08 - \$8.0M

- DoD REPI funding for EP acquisitions

FY10 - Navy \$13.2M (DON \$23.0M)

FY09 - Navy \$11.6M (DON \$19.8M)

FY08 - Navy \$ 6.4M (DON \$15.5M)

FY07 - Navy \$ 5.5M (DON \$12.2M)

FY06 - Navy \$ 7.9M (DON \$12.0M)

FY05 - Navy \$ 1.0M (DON \$ 2.5M)

CPLO Training

- CPLO Annual Seminar (outward focus)
 - ✓ local governments
 - ✓ regional governments
 - ✓ Non-Governmental Organizations (NGOs)
 - ✓ other Military Services
- CPLO Annual Workshop (internal focus)
 - ✓ execution issues
 - ✓ common business practices and lessons learned
 - ✓ Risk communications training

Policy and Guidance

- CNO Encroachment Management Instruction
 - ✓ OPNAVINST 11010.40 27 Mar 07
 - ✓ OPNAVINST 11010.36C 9 Oct 08 (AICUZ Program)
 - ✓ OPNAVINST 3550.1A 28 Jan 08 (RAICUZ Program)
- CNIC Encroachment Management Inst
 - ✓ Establishes CNIC lead execution role
 - ✓ Identifies Region responsibilities
 - ✓ Establishes CPLO Program under the Commanding Officer
 - ✓ Requires annual reporting to CNIC on EAP implementation progress
 - ✓ Identifies NAVFAC Program Management responsibilities

Navy EAPs Completed

(as of 10/01/2010)

| | | | | | |
|-----------------------|-------|-----------|----------------------------|-------|-----------|
| NAS Fallon | CNRSW | Completed | NAS Lemoore | CNRSW | Completed |
| NAS JRB Fort Worth | CNRSE | Completed | NWS Seal Beach | CNRSW | Completed |
| NAS JRB New Orleans | CNRSE | Completed | NAS Oceana, Dam Neck Annex | CNRMA | Completed |
| NSA Norfolk, NW Annex | CNRMA | Completed | Dare County Ranges | CNRMA | Completed |
| NAF El Centro | CNRSW | Completed | NAS Corpus Christi | CNRSE | Completed |
| NAS Pax River | NDW | Completed | NS Pearl Harbor, Hawaii | CNRH | Completed |
| NSA South Potomac | NDW | Completed | NB Kitsap | CNRNW | Completed |
| NS Newport | CNRMA | Completed | SUBASE Kings Bay | CNRSE | Completed |
| NB Ventura County | CNRSW | Completed | JEB Little Creek-FT Story | CNRMA | Completed |
| NAWS China Lake | CNRSW | Completed | VACAPES | CNRMA | Completed |
| NAS Whiting Field | CNRSE | Completed | SUBASE New London | CNRMA | Completed |
| NAS Jacksonville | CNRSE | Completed | | | |
| NS Mayport | CNRSE | Completed | | | |
| NSA Panama City | CNRSE | Completed | | | |
| NAES Lakehurst | CNRMA | Completed | | | |
| NS Everett | CNRNW | Completed | | | |
| NAS Whidbey Island | CNRNW | Completed | | | |
| Flagstaff Observatory | CNRSW | Completed | | | |
| NS Norfolk | CNRMA | Completed | | | |
| NSA Norfolk | CNRMA | Completed | | | |

Navy EAPs In-Progress/Awarded (as of 10/01/2010)

| | | | | | |
|-------------------------------|-------|-------------|---------------------|-------|----------|
| NAS Kingsville | CNRSE | In-Progress | NAS Fallon | CNRSW | Re-Fresh |
| NAS Key West | CNRSE | In-Progress | NAWS China Lake | CNRSW | Re-Fresh |
| NAS Pensacola | CNRSE | In-Progress | NAS Lemoore | CNRSW | Re-Fresh |
| NAS Jacksonville Ranges | CNRSE | In-Progress | NAF El Centro | CNRSW | Re-Fresh |
| NAVMAG Indian Island | CNRNW | In-Progress | NBVC Ventura County | CNRSW | Re-Fresh |
| NAS Meridian | CNRSE | In-Progress | | | |
| NB Coronado w/SCI | CNRSW | In-Progress | | | |
| Pt Mugu Sea Range (NAVAIR) | CNRSW | In-Progress | | | |
| NSA Washington | NDW | In-Progress | | | |
| NSA North Potomac | NDW | In-Progress | | | |
| Marianas (Navy/ Marine Corps) | CNRM | In-Progress | | | |
| PMRF Kauai, Hawaii | CNRH | Awarded | | | |
| NB San Diego | CNRSW | Awarded | | | |
| SUBASE Point Loma | CNRSW | Awarded | | | |
| NPS Monterrey | CNRSW | Awarded | | | |
| Fallon Range Complex | CNRSW | Awarded | | | |
| El Centro Range Complex | CNRSW | Awarded | | | |
| SW Region Whitespace | CNRSW | Awarded | | | |